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No. 40] NEW DELHI, SATURDAY, OCTOBER 4, 1986 (ASVINA 12, 1908)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड २

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस
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PATENTS AND DESIGNS

Calcutta, the 4th October 1986

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APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,
CLCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 28th August, 1986

650/Cal/86. Subhasis Biswas and Nitindra Chandra Roy. Sheet metal polishing master.

651/Cal/86. Catalytica Associates. Olefin oxidation catalyst system.

The 29th August, 1986

652/Cal/86. Mitsubishi Denki Kabushiki Kaisha. Rotary Compressor.

653/Cal/86. The Babcock & Wilcox Company. Variable pulse rate led electronics for a fiber optic vortex shedding flowmeter.

654/Cal/86. Combustion Engineering, Inc. Variable frequency, variable voltage A.C. motor drive.

655/Cal/86. SCM Corporation. High impact strength powder metal part and method for making same.

656/Cal/86. Dricon Air Pty Limited. Air conditioning means and method. (30th August, 1985) Australia.

The 1st September, 1986

657/Cal/86. Sri Bireswar Saha. Improvements in or relating to flasks for apparatus for distilling liquids.

658/Cal/86. Siemens Aktiengesellschaft. An electric switch

659/Cal/86. Siemens Aktiengesellschaft. An electric switch.

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OFFICE BRANCH, MUNICIPAL MARKET BUILDING,
3RD FLOOR, KAROL BAGH, NEW DELHI-110005

The 28th July, 1986

684/Del/86. Santa Barbara Research Center. "Fire sensor statistical discriminator".

685/Del/86. Rinefas Ltd.. "Speed reducing mechanism". (Convention date 29th July, 1985) (Australia).

The 29th July, 1986

686/Del/86. Norsk Hydro A.S.. "Stabilized ammonium nitrate compositions". [Divisional date 8th September, 1983].

687/Del/86. Technicon Instruments Corporation. "Integral reagent dispenser". [Divisional date 8th November, 1983].

688/Del/86. BP Chemicals Ltd.. "Polymerisation of olefins using a ziegler natta catalyst and two organometallic compounds". (Convention date 23rd January, 1986) (U.K.).

689/Del/86. The Board of the Rubber Research Institute of Malaysia. "A method for treatment of natural rubber field latex". (Convention date 20th August, 1985) (U.K.).

690/Del/86. SAFT. "A method of manufacturing a polymer consolidated cadmium electrode for an alkaline storage cell, and an electrode obtained by the method".

691/Del/86. SAFT. "An iron oxide based electrode for an alkaline storage cell and a method of manufacturing such an electrode".

The 30th July, 1986

692/Del/86. UOP INC., "Process for separating monoterpenes".

693/Dcl/86. Shell Internationale Research Maatschappij B. V., "Composition for processing by melt spinning or melt blowing". (Convention date 1st August, 1985) (U.K.).

694/Del/86. Rockwell International Corporation, "Stem seal for tapered lubricated plug valves".

695/Del/86. NRM Corporation, "Hydraulic tire curing press".

696/Del/86. Color Technologies, Inc., "Improvements in method of and apparatus assemblies for the production of colorant or pigment containing pellets".

The 31st July, 1986

697/Del/86. Mahi Pal Singh, "X compression apparatus".

698/Del/86. Mahi Pal Singh, "Long intramedullary compression screw (LICS)".

699/Del/86. Ross Leslie Palmer, "Manufacture of roll formed and coated articles". (Convention date 31st July, 1985) (Australia).

The 1st August, 1986

700/Del/86. Poclain Hydraulics, "Braking device with multiple effects".

701/Del/86. NRM Corporation, "Tire curing press and loader".

The 4th August, 1986

702/Del/86. H. V. Equipments Pvt. Ltd., "Material control and monitoring device".

703/Del/86. Ramji Das Agarwal, Rajesh Agrawal & Mukesh Agrawal, "Paddy Planter".

704/Del/86. Ramji Das Agarwal, Rajesh Agrawal & Mukesh Agrawal, "Wheat Reaper".

705/Del/86. Imperial Chemical Industries PLC., "Hydrogen streams". (Convention date 7th August, 1985) (U.K.).

706/Del/86. Scapa Porritt Ltd., "Papermachine and like clothing". (Convention date 6th August, 1985) (U.K.).

707/Del/86. The Lubrizol Corporation, "A composition for use as functional fluids having anti wear and high pressure properties". [Divisional date 6th January, 1984].

The 5th August, 1986

708/Del/86. The Lubrizol Corporation, "Fuel products".

709/Del/86. Champion Spark Plug Europe S.A., "Improved wiper blade".

710/Del/86. ICI Australia Ltd., "Composition". (Convention date 21st August, 1985) (Australia).

711/Del/86. Albright & Wilson Ltd., "Novel biocidal mixture". (Convention date 6th August, 1985 & 20th December, 1985) (U.K.).

The 6th August, 1986

712/Del/86. LGZ Landis & Gyr Zug AG., "Electrical switching circuits for use with four pole devices".

713/Del/86. Chemie Linz Aktiengesellschaft, "Use of salts of water soluble".

The 7th August, 1986

714/Del/86. Imperial Chemical Industries PLC, "Producing ammonia synthesis gas". (Convention date 21st August, 1985) (U.K.).

715/Del/86. The British Petroleum Company P.L.C., "Process for the catalysed dealkylation of alkyl aromatic hydrocarbons". (Convention date 18th November, 1982) (U.K.) & [Divisional date 16th November, 1983].

The 8th August, 1986

716/Del/86. Om Prakash Verma, "Mechanical power generator".

717/Del/86. Steel Authority of India Ltd., "Recovery of heat from waste gases in a rotary kiln sponge iron plant".

718/Del/86. Tilex France Sarl., "Method of manufacturing agglomerated facing boards".

The 8th August, 1986

719/Del/86. Peterson Filters Corporation, "Method and apparatus for use in separating solids from liquids".

720/Del/86. National Council for Cement and Building Materials, "A vertical shaft kiln".

721/Del/86. National Council of Cement and Building Materials, "A vertical shaft kiln".

722/Del/86. National Council of Cement and Building Materials, "A rotary grate for use in a vertical shaft kiln".

723/Del/86. National Council for Cement and Building Materials, "A process for preparation of calcium silicate hydrate products".

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1	2	3
23rd July 1986		
203/BOM/86	Polyolefins Industries Limited.	Sprinkler system made of plastic materials.
24th July 1986		
204/BOM/86	Seade (India) Ltd.	A process for the preparation of aryl ureas and aryls sulphonyl ureas from aryl thioureas and aryl sulphonyl thiouraas respectively.
205/BOM/86	Tata Engineering & Locomotive Company Limited.	An improved salt bath furnace and a method of manufacturing the same.
25th July 1986		
206/BOM/86	TRW Ehrenreich GmbH & Co. KG.,	Ball Joint.
207/BOM/86	Industrial Quimica Del Nalon S.A.	A process and apparatus for manufacture of potassium manganate.
28th July 1986		
208/BOM/86	Ion Exchange (India) Ltd.	A process for obtaining individual components from a rasemic mixture thereof.
209/BOM/86	Do.	A process for preparing improved resin and to an improved process for removing iron from water.
210/BOM/86	Hindustan Antibiotics Ltd.	A process for isolation and purification of phenyl acetic acid.
211/BOM/86	Mukesh Rameshchandra Shah	Headlight and flasher combination switch with rotary knob switch.
30th July 1986		
212/BOM/86	Kinetic Engineering Ltd.	A valve type device for reducing carbon monoxide content in exhaust gases from a spark ignition petrol engine.
1st August 1986 G. R. Britain		
213/BOM/86	Navayug Industrials	A super soft flow rapid dyeing machine and improved method and apparatus for dyeing delicate, medium and heavy fabrics.
214/BOM/86	Hindustan Lever Ltd.	Oligosaccharides.

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002

The 11th August, 1986

642/Mas/86. The Dow Chemical Company. Slag removal system for a solid fuels gasification reactor.

643/Mas/86. Raychem Corporation. Polymer thick film inks.

644/Mas/86. Ole-Bendt Rasmussen. A method of preparing a high strength sheet material. (Divisional to Patent Application No. 366/Cal/83).

645/Mas/86. Roger M. Rowell. A process for improving dimensional stability and biological resistance of lignocellulosic material.

646/Mas/86. Actief M.V. Self-engaging separable fastener.

647/Mas/86. R. T. Vanderbilt Company, Inc. Organic molybdenum complexes.

The 12th August, 1986

648/Mas/86. Lucas Industries Public Limited Company. Improvements in self-energising disc brakes. (August 30, 1985; United Kingdom).

649/Mas/86. Elkem a/s. Arrangement for suspension of a baking furnace for electrodes.

650/Mas/86. Ciba-Geigy AG. Polyvinyl alcohol derivatives and crosslinked hydrogel contact lenses made therefrom.

651/Mas/86. Owens-Illinois, Inc. Method and apparatus for applying labels in the molds of a plastic blow mold machine.

652/Mas/86. Rhone-Poulenc Specialities Chimiques. A process for the preparation of a modified polysaccharide and compositions containing IT.

653/Mas/86. Societe des Produits Nestle S.A. Alcohol production.

The 13th August, 1986

654/Mas/86. Mannesmann Aktiengesellschaft. Process for the oxidative treatment of steel.

655/Mas/86. Linde Aktiengesellschaft. Fractionation of a hydrocarbon mixture.

656/Mas/86. Linde Aktiengesellschaft. Imposed Adsorrate recovery in PSA process.

657/Mas/86. Linde Aktiengesellschaft. Pressure swing adsorption.

658/Mas/86. Maschinenfabrik Rieter, AG. Method of starting spinning of yarn in a friction spinning device.

659/Mas/86. Michelin & CIE (Compagnie Generale des Etablissements Michelin). A tire and a method of manufacturing the same. (Divisional to Patent Application No. 126/Mas/84).

The 14th August, 1986

660/Mas/86. Kyowa Hakko Kogyo Co. Ltd. Process for producing L-Lysine by fermentation. (Divisional to Patent Application No. 767/Mas/84).

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 128-E & K

158234

Int. Cl. : A 61 b 17/11, 17/36;
A 61 n 3/04.

MICROSURGICAL LASER INSTRUMENT.

Applicant & Inventor : JAMES ROBERT MORRIS, AT 8914 WALD ROAD, HOUSTON, TEXAS 77034, UNITED STATES OF AMERICA.

Application No. 1105/Cal/82 filed September 24, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A microsurgical laser instrument suitable for focusing a laser beam to a small spot in a focal plane for surgery, said instrument comprising a microscope adapted for viewing said focal plane and a laser beam manipulation system associated with said microscope comprising :

a laser source for producing a laser beam;

means associated with the laser beam source for expanding the cross-section of the laser beam and for collimating the expanded laser beam;

means for interrupting the laser beam located in the path of said laser beam;

power level detection means associated with said laser beam;

a lens for focusing the expanded laser beam to a small spot on said focal plane, said focusing lens having a cross-section larger than the cross-section of the expanded laser beam;

means for attenuating the laser beam to control its power comprising two polarizers and manually controllable means comprising two scanning galvanometer mirrors located between said expanding and collimating means and said focusing lens for moving the collimated expanded beam laterally in relation to the focusing lens to allow the small spot to be moved in the focal plane.

Compl. specn. 19 pages.

Drg. 4 sheets,

CLASS : 40-H

158235

Int. Cl. : B 01 j 53/14.

A PROCESS FOR REMOVING ACIDIC GASES FROM NATURAL GASES AND FROM SYNTHESIZED GASES.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors : 1. LUIGI GAZZI, 2. GIANCARLO COTONE, 3. GIANFRANCO SOLDATI, 4. ALESSANDRO GINNASI, 5. ALESSANDRO VETERE, 6. CARLO RESCALLI.

Application No. 843/Cal/82 filed July 21, 1982.

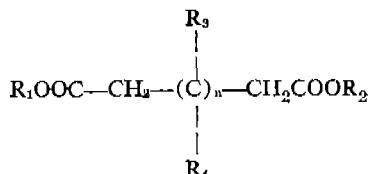
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

A process for removing acidic gases from natural gases and from synthesized gases characterized in that it exploits a solvent selected from among low molecular weight esters of the following classes :

— esters of alcohols of the general formula R_1COOR_2 , wherein R_1 and R_2 are alkyls having from 1 to 4 carbon atoms, equal to or different from one another;

esters of glycols of the general formula



wherein R_1 and R_2 are alkyls having from 1 to 3 carbon atoms, equal to or different from one another, R_3 and R_4 , equal to or different from one another, are either alkyls having from 1 to 3 carbon atoms or hydrogen atoms, n is an integer which can take the values of 0 or 1;

— cyclic esters (lactones) of the formula shown in Fig. 1 or Fig. 2 of the accompanying drawings,

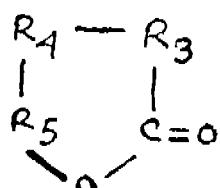


Fig. 1

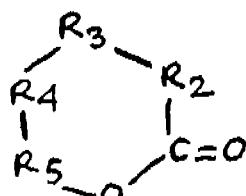


Fig. 2

wherein R_2 , R_3 , R_4 , R_5 , equal to or different from each other, are alkyls in which the hydrogen is

optionally substituted by alkyls having 1 to 4 carbon atoms or methoxy groups—open-chain, or cyclical ethers such as that shown in Fig. 3 of the drawings

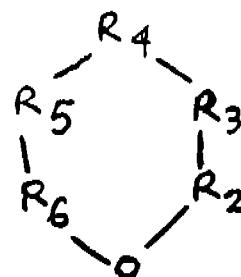


Fig. 3

wherein R_2 , R_5 , R_6 , equal to or different from each other, are alkyls in which the hydrogen is optionally substituted by alkyls having 1 to 4 carbon atoms or methoxy groups, R_3 is an oxygen atom or an alkylene in which the hydrogen can optionally be substituted by alkyls or methoxy groups, R_4 is the same as R_5 or is absent in the case of a 5-membered ring; which process comprises the following steps :

- Feeding in a manner as described herein the natural or the synthesized gas to a low-temperature distillation column having the task of reducing the contents of acidic gases;
- Feeding in a manner as described herein the partially purified gas exiting the distillation column of (a) to an absorption column to further reduce the acidic acid contents down to a desired value;
- Regenerating the exhausted solvent(s) emerging from the bottom of the absorption column initially by one or more expansion stages wherefrom the useful components absorbed together in stage (b) are recovered to be recycled to the absorption column aforesaid, and then by another or some additional expansion stage(s) wherefrom the acidic gases are evolved;
- Recycling the regenerated solvent(s) of (c) to the absorption column of (b).

Compl. specn. 18 pages.

Fig. 2 sheets.

CLASS : 60-X₂ b; 128-G

158236

Int. Cl. : A 61 b 10/00.

A PROCESS FOR PREPARING A COATED SUBSTRATE FOR USE IN DETERMINING FERTILITY IN FEMALES.

Applicant & Inventor : DOROTHEE FLOREN & ENGEL GOLDMAN OF APARTADO AEREO 10229 BOGOTA, D. E./COLOMBIA (U. S. A.)

Application No. 1072/Cal/82 filed September 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A process for preparing a coated substrate for use in determining fertility in female which comprises coating an anthocyanin pigment on a substrate such as herein described, preferably a cellulosic material, to provide a fertility evaluation medium followed by, if desired, drying the said coated substrate under ambient condition, the said pigment being applied preferably as an aqueous solution in a concentration of from 0.01 mg/ml to 1.0 mg/ml.

Compl. specn. 19 pages.

Fig. 1 sheet.

CLASS : 32-F, (d)

158237

Int. Cl. : C 09 b 27/00.

PROCESS FOR PREPARING WATER-SOLUBLE AZO COMPOUNDS.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AN MAIN 80, FEDERAL REPUBLIC OF GERMANY.

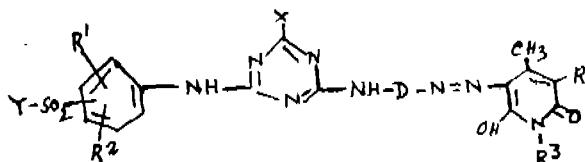
Inventors : 1. FOLKER KOHLHAAS, 2. FRITZ MEININGER.

Application No. 1207/Cal/82 filed October 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A process for preparing a water-soluble monoazo compound of the formula (1) of the accompanying drawings :



Formula (1)

and an alkali metal salt thereof in which

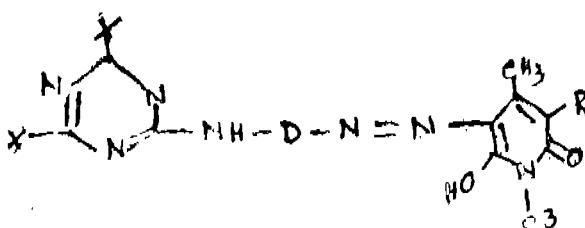
R¹ is a hydrogen atom, a lower alkyl group, a lower alkoxy group or a chlorine atom;R² is a hydrogen atom, a lower alkyl group or a lower alkoxy group;R³ is a lower alkyl group which is substituted by a hydroxy group, a lower alkanoylamino group, a carboxy group or a sulfo group;

R is a hydrogen atom, the carbamoyl group, the cyano group or the sulfo group;

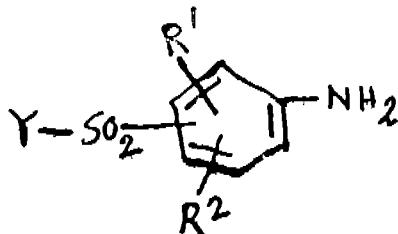
D is the meta- or para-phenylene group substituted by one or two sulfo groups or by one or two sulfo groups and a lower alkyl group;

X is a chlorine or fluorine atom;

Y is the vinyl group or an ethyl group which contains bonded in the β-position a radical which can be eliminated under alkaline conditions as an anion; and

the formula moieties R¹, R², R³ and R can be identical to or different from one another which comprises reacting a dihalogenotriazine compound of the formula (6)

Formula (6)

in which D, X, R and R³ have the meanings mentioned above with an amino compound of the formula (7)

Formula (7)

in which R¹, R² and Y have the meanings mentioned above at a temperature between 10 and 60°C and at a pH-value between 2 and 9.

Compl. specn. 33 pages.

Drg. 21 sheets.

CLASS : 88-F

158238

Int. Cl. : B 01 d 47/00.

A PROCESS AND APPARATUS FOR PURIFYING A GASEOUS MIXTURE BY REMOVING THEREFROM SOUR GASES BY REGULATING THE NH₃ CONTENT THEREOF.

Applicant : LINDE AKTIENGESELLSCHAFT, ABRAHAM-LINCOLN-STRASSE 21 D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. DR. HEINZ KARWAT.

Application No. 1241/Cal/82 filed October 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A process for purifying a gaseous mixture by removing therefrom sour gases by physical scrubbing with an organic liquid, said liquid being freed from the absorbed gaseous components after the scrubbing procedure and being reused in the circuit, comprising adding an acid precipitant such as herein described to a partial stream of the scrubbing agent to precipitate ammonia therefrom at temperatures in the range of about 0 to 60°C and separating the resultant precipitate from the scrubbing agent by a known method to the extent of leaving a residue to 300 to 2000 mg/kg and, if desired, cooling the scrubbing agent after precipitation to a temperature in the range of about 0 to -95°C.

Compl. specn. 18 pages.

Drg. 1 sheet.

CLASS : 128-K

158239

Int. Cl. : A 61 b 17/00.

LIGATING CLIP AND AMPLIFIER INSTRUMENT THEREFOR WITH CLIP ENGAGING ESCAPEMENT.

Applicant : ETHICON, INC., LOCATED IN SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT WILLIAM MERICLE.

Application No. 177/Cal/83 filed February 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

9 Claims

A scissors-type medical instrument for repeatedly applying a plurality of ligating clips serially about tissue wherein each said clip is initially provided in an open state and wherein each said clip comprises first and second legs joined at their proximal ends by a resilient hinge and spaced apart

at their distal ends with said legs having latch means at said distal ends for holding said clip closed in clamping engagement about said tissue when said legs are squeezed together, each said clip having a base extending along said first leg from the distal end of said leg and terminating short of said clip hinge whereby said hinge projects rearwardly of said base to define an open recess adjacent the rearward end of said base below said hinge, said clip base including guide means for slidably engaging a portion of said instrument, said instrument comprising:

first and second handles mounted together for pivotal movement about a pivot axis, each said handle extending forwardly beyond the pivot axis to form a clip closing jaw, said jaws having opposing clip engaging faces;

said first handle including a guideway for receiving a plurality of said open clips in a single row with the clips arranged in end-to end relationship with the distal end of said first legs of one clip abutting the hinge of the next forwardly adjacent clip, said first handle including clip retaining means along said guideway for engaging said clip base guide means to retain said clip in sliding engagement within said first handle in said guideway;

means for moving said row of clips forwardly along said guideway to said jaws;

a gate at said first handle jaw mounted for rotation about a longitudinal axis between a first orientation and a second orientation, said gate including a forward flange adjacent the forward end of said first handle jaw, said forward flange projecting in front of said guideway and defining a segment cut away to permit passage of a clip therewith when the gate is in said first orientation but preventing the passage of a clip therewith when said gate is in said second orientation, said gate having a rearward flange spaced rearwardly from said forward flange by a distance substantially equal to the length of the base of a clip, said rearward flange projecting into said guideway and defining a segment cut away to permit the passage of a clip therewith when said gate is in said second orientation but preventing the passage of a clip therewith when said gate is in said first orientation;

a rod extending rearwardly from said gate along said first handle and adapted to rotate about a longitudinal axis coincident with the rotational axis of said gate, said rod having a drive portion projecting laterally at an angle relative to the longitudinal axis of said rod; and

an upper engaging member carried by said second handle and a lower engaging member carried by said second handle, said first and second engaging members being spaced apart and receiving between them said drive portion of said rod whereby, (1) when said first and second handles are moved apart, said upper engaging member engages said drive portion of said rod and rotates said rod in a first direction to rotate said gate to said second orientation in which said forward flange blocks further forward feeding of the first clip in the row of clips and thereby maintains said first clip in the region of said jaws and, (2) when said first and second handles are moved toward one another, the front clip in the row of clips within the region of the jaws is squeezed together and latched closed and said lower engaging member engages said drive portion of said rod and rotates said rod to rotate said gate in a second, opposite direction to said first orientation in which said forward flange permits passage of said closed clip beyond said forward flange as said jaws are subsequently opened by moving said handles apart an amount sufficient to provide clearance around the closed clip but by an amount insufficient to again engage said drive portion of said rod with said upper engaging member.

CLASS : 206-F

158240

Int. Cl. : G 05 b 11/42, 13/00.

AN ADAPTIVE CONTROL DEVICE FOR A PROCESS PLANT.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA-70160, UNITED STATES OF AMERICA.

Inventors : 1. AZMI KAYA, 2. MICHAEL PAUL LUKAS.

Application No. 204/Cal/83 filed February 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An adaptive control device for a process plant having a controller for generating a control output, the process having a set point, a process output and a plurality of disturbances comprising:

a process parameter calculator for receiving the disturbances, the control output and the set point, and generating a plurality of process parameters, each being a sum of selected functions of each of the disturbances, control output and set point; and

a tuning parameter calculator connected to said process parameter calculator for receiving said plurality of process parameters and for receiving at least one design function and at least one performance parameter, said tuning parameter calculator including means for generating at least one tuning parameter calculator including means for generating at least one tuning parameter as a function of said process parameters, said at least one design function and said at least one performance parameter, said tuning parameter calculator connected to the controller for applying said at least one tuning parameter to the controller;

said process and tuning parameter calculators both comprising a plurality of function blocks connected to each other for manipulating values received according to said selected functions and at least one design function.

Compl. specn. 16 pages.

Drg. 4 sheets.

CLASS : 32-E

158241

Int. Cl. : C 08 f 1/06.

AN IMPROVED PROCESS FOR CONTINUOUS PRODUCTION OF POLYMER IN A FLUIDIZED BED REACTOR.

Applicant : UNION CARBIDE CORPORATION, LOCATED AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT (06817), UNITED STATES OF AMERICA.

Inventors : 1. JOHN MITCHELL JENKINS III, 2. RUSSELL LAWRENCE JONES, 3. THOMAS MICHAEL JONES, 4. SAMIL BERET.

Application No. 349/Cal/83 filed March 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

In a continuous process for the production of polymer in a fluidized bed reactor from one or more fluid monomers such as exemplified hereinbefore by continuously passing a

lyst under reactive conditions, withdrawing polymeric product and unreacted fluids the latter being destined to form the recycle stream, cooling said unreacted fluids and returning said cooled fluids into said reactor together with sufficient additional monomers to replace those monomers polymerized and withdrawn as product, the improvement which comprises :

cooling part or all of said unreacted fluids of the recycle stream to a temperature below the dew point of the recycle stream to form a two-phase mixture of gas and entrained liquid and reintroducing said two-phase mixture into said reactor to maintain the temperature of the fluidized bed at the desired level, wherein the reactor is operated at a pressure upto 1000 psi and wherein the quantity of condensed liquid contained in the gas phase is less than 20 per cent by weight.

Compl. specn. 31 pages.

Drg. 1 sheet.

CLASS : 98-G

158242

Int. Cl. B 21 d 53/04.

PROCESS FOR MANUFACTURING HEAT TRANSFER ELEMENT SHEETS FOR A ROTARY REGENERATIVE HEAT EXCHANGER.

Applicant : THE AIR PREHEATER COMPANY, INC., OF ANDOVER ROAD, WELLSVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD BRUCE ENGLUND.

Application No. 1113/Cal/83 filed September 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for manufacturing heat transfer element sheets for stacking within an element basket for a rotary regenerative heat exchanger comprising :

- drawing a sheet of heat transfer element material from a source thereof;
- forming a plurality of outwardly extending notches in said sheet of heat transfer element material, the notches being spaced apart at equal intervals along the length of said sheet;
- cutting a plurality of first sub-sheets from said notched sheet of heat transfer element, said cutting controlled so that each of said first sub-sheets has a leading edge sheared along a first line having a fixed orientation relative to said notches;
- cutting a plurality of second sub-sheets from said notched sheet of heat transfer element, said cutting controlled so that each of said second sub-sheets has a leading edge sheared along a second line having a fixed orientation relative to said notches, said second line being substantially parallel to and spaced from said first line relative to said notches; and
- stacking said first and second sub-sheets within the element basket in juxtaposition with said second sub-sheets interdisposed between said first sub-sheets thereby precluding the nesting of said notches of juxtaposed sub-sheets.

Compl. specn. 14 pages.

CLASS : 85-G & J

158243

Int. Cl. : F 27 b 9/22.

PUSHER TYPE FURNACE.

Applicant: EBNER INDUSTRIEOFENBAU ING. JOSEF EBNER KG., RUFLINGER STRASSE 111, A-4060 LEONDING, AUSTRIA.

Inventor : 1. PETER EBNER.

Application No. 1166/Cal/83 filed September 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A pusher type furnace comprising skid rails for shoes to carry materials like aluminium or aluminium slabs to be heat treated through the furnace, and slip elements to reduce the friction between the rails and the shoes, characterized in that each slip element comprises a plate fitted in an shallow recess in the top phase of said rails.

Compl. specn. 7 pages.

Drg. 2 sheets.

CLASS : 48 A4 & D1

158244

Int. Cl. : H 01 b 17/08.

A CAP FOR AN ELECTRICAL INSULATOR.

Applicant : CERAVER, 6012, RUE DE LA BAUME, 75008 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventor : LUCIEN BIGAY.

Application for Patent No. 577/Del/1982 filed on 28th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A cap for an electrical insulator comprising a hollow body made of sheet metal providing an anchoring cavity for an insulating member, and having a crown with at least one opening, a separate metal assembly part for co-operating with an outside unit and having at least one wall which passes through said opening of said crown and a base plate connected to and bearing against the crown of said hollow body.

Compl. specn. 8 pages.

Drg. 2 sheets.

CLASS : 80 K

158245

Int. Cl. : B 01 d 33/02.

FILTERING DEVICE FOR REMOVING FOREIGN MATTER FROM FLUID MATERIAL.

Applicant : CRESTA TECHNOLOGY LIMITED (FORMERLY CRESTA TECHNOLOGY (UK) LTD.), A BRITISH COMPANY OF QUARRY LANE, CHICHESTER, SUSSEX, ENGLAND.

Inventor : PETER ALAN MORRIS.

Application for Patent No. 583/Del/1982 filed on 30th July, 1982.

Convention date on 5th August, 1981/8123933/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A filtering device for removing foreign matter from a fluid material comprising a filter drum arranged to receive material to be filtered at its outer surface and to deliver filtered material from its interior the material having been filtered by passing through the wall of the drum from the exterior to the interior thereof, and means for cleaning the

external surface of the filter drum by selective back flow of filtered material from the interior to the exterior of the drum so as to dislodge and wash away foreign matter deposited on the exterior of the drum said cleansing means comprising a manifold member in seating engagement with a limited area of the external surface of the drum to provide for a flow of filtered material from the drum interior through said limited area of the drum external surface and into the said manifold member, and means for rotating said drum so as to cause different areas of the external surface thereof to register successively with said manifold member and to be cleansed by said back flow of filtered material, said filter drum comprising an inner and an outer cylindrical filter barrel adapted to receive therebetween a cylindrical filter screen, said outer barrel having a plurality of relatively large spaced apart openings in its outer surface each of which communicates via a passageway through the thickness of the outer barrel wall with a correspondingly large opening in the inner surface of the outer barrel, said inner barrel having through apertures of such small size that a plurality thereof register with each of said opening in the inner surface of the outer barrel, and said manifold member being dimensioned to seat with an area of the external surface of the outer filter barrel corresponding to one of the said openings therein.

Compl. specn. 17 pages.

Drg. 6 sheets.

CLASS : 64B¹ & 27I+L

158246

Int. Cl. : E04c 5/16, 5/08 & E04g 21/12.

"STRESSED STRUCTURES SUCH AS SUPPORT OF PYLONS FOR BRIDGES."

Applicant : FREYSSINET INTERNATIONAL (STUP), A FRENCH COMPANY OF 66, ROUTE DE LA REINE, 92100 BOULOGNE-BILLANCOURT, FRANCE.

Inventor : ANTONIO DINIS, CARLOS DE LA FUENTE AND PAUL MONDORF.

Application for Patent No. 599/Del/1982 filed on 4th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A structure such as a support of pylon for a bridge provided therethrough with a number of superposed curved channels, each channel having disposed therein from either and thereof two rectilinear and symmetrical portions of a stretched cable, said cable portions being provided within said channel within a prestressed tubular envelope, the strands of said cable portions being maintained in spaced relationship by means of a plurality of separator and spacer elements, the free spaces between said strands, separators and spacers being filled with a settable material of the kind described herein injected in the liquid state into said free spaces, the strands at either of said cable portions being anchored within a block provided externally or just internally of said support or pylon, each block comprising a plurality of discs provided with transverse symmetrical bores and conical cavities, said strands being anchored in conical cavities in selected discs, said bores being disposed in those discs in which the strands are not anchored, the structure providing a total tensioned force equal at least to that of the two portions of said cables.

Compl. specn. 10 pages.

Drg. 1 sheet.

CLASS : 47 A&C

158247

Int. Cl. : C 10b 47/00.

A PROCESS AND APPARATUS FOR REGENERATING A COKE CONTAMINATED FLUID CATALYST.

Applicant : UOP INC., A CORPORATION ORGANIZED IN THE STATE OF DELAWARE, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN, MR. PROSPECT ROADS, DES PLAINES, ILLINOIS, UNITED STATES OF AMERICA.

Inventors : ANTHONY GRANVILLE VICKERS, HAROLD ULRICH HAMMERSHAIMB AND CHARLES LEROY HEMLER.

Application for Patent No. 628/Del/1982 filed on 18th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

18 Claims

A process for regenerating a coke contaminated fluid catalyst, said process including the steps of :

- (a) introducing oxygen containing regeneration gas, coke contaminated fluid catalyst, cool recycled regenerated catalyst and hot recycled regenerated catalyst from sources hereinafter described, into a lower locus of a dilute phase combustion zone maintained at a temperature sufficient for coke oxidation and therein oxidizing coke to produce hot regenerated catalyst and hot flue gas;
- (b) transporting said hot flue gas and said hot regenerated catalyst from an upper locus of said combustion zone into a regenerated catalyst disengaging zone, wherein said hot regenerated catalyst is separated from said flue gas;
- (c) transporting a first portion of said hot regenerated catalyst from said disengaging zone to a cooling zone separate from said disengaging zone wherein heat is withdrawn from said hot regenerated catalyst to produce cool regenerated catalyst;
- (d) withdrawing said cool regenerated catalyst from said cooling zone and transporting it into said combustion zone as said cool recycled regenerated catalyst; and
- (e) transporting a second portion of said hot regenerated catalyst from said disengaging zone into said combustion zone as said hot recycled regenerated catalyst.

Compl. specn. 24 pages.

Drg. 2 sheets.

CLASS : 110 [XXI(2)]

158248

Int. Cl. : D 04 b 15/00, 35/00; G 05 b 19/05 & G 06 f 15/46.

"PROGRAMMABLE KNITTING MACHINE."

Applicants : SUPERBA S.A., A FRENCH COMPANY OF 13, RUE DE PFASTATT, MULHOUSE, HAUT RHIN, FRANCE.

Inventors : ALFRED GLOECKLER.

Application for Patent No. 696/Del/1982 filed on 10th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

Programme knitting machine including at least one grooved holder for receiving transversely-slideable needles activated by a carriage which is displaceable in the longitudinal direction on the holder, the carriage comprising means for selecting and directing needles along various pathways either for jacquard weaving or fancy stitching, these pathways being formed by cams, the improvement comprising a microprocessor having a memory connected to a pattern and knitting coding matrix by an electrical connection including several conductors forming a first group of conductors, the number of conductors comprising the first group being equal to the number of columns or lines of said matrix, said electrical connection further including a second group of conductors forming the lines or columns of said matrix crossing each one of the conductors of the first group without being in contact

therewith when the matrix is inoperative, a common electrical supply line interconnected with each of the conductors, of the second group of conductors, needle selection means responsive to an output signal from said microprocessor and connected to the said needles, selector means for controlling input functions to said microprocessor including line-by-line programming by a signal from said matrix at each point where contact is established between a conductor of the first group and a conductor of the second group, and display means for indicating the programmed memory of said microprocessor by said pattern and knitting coding matrix.

Compl. specn. 20 pages.

Drg. 4 sheets.

CLASS : 205 B & 136 M

158249

Int. Cl. : B 29 h, 5/04, 17/36.

A METHOD OF RETREADING TIRE CASING.

Applicant : BANDAG, INCORPORATED, OF BANDAG CENTER, MUSCATINE, IOWA 52761, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF IOWA, U.S.A.

Inventor : DONALDEE BREWER.

Application for Patent No. 698/Del/1982 filed on 13th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A method of retreading a tire casing comprising applying a precured rubber tread to the periphery of a tire casing having sidewalls, with a layer of vulcanisable rubber-base material interposed between the tread and the tire casing, covering the tread and at least the adjacent sidewalls of the tire casing with a flexible airtight cover, mounting said tire casing on a rim member having extended flanges, sealing the flexible airtight cover member between said extended flanges and the sidewalls, placing said mounted tire assembly in a vessel, applying fluid pressure to the interior of a vessel containing the tire assembly in order to press the flexible airtight cover against the assembly of tread and casing, maintaining in a manner described herein before a predetermined pressure differential between the inside and outside of said flexible airtight cover and venting any excess pressure from the space between the cover and the tread.

Compl. specn. 17 pages.

Drg. 4 sheets.

CLASS : 32F¹

158250

Int. Cl. : C 07 c 21/18.

A PROCESS FOR THE PRODUCTION OF TETRAFLUOROETHYLENE.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventor : BALKAR SINGH, PRAVEEN KUMAR KAICKER, UMESH TANEJA AND JAI KRISHNA NIGAM.

Application for Patent No. 753/Del/1982 filed on 13th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the production of tetrafluoroethylene from monochlorodifluoromethane which comprises subjecting

monochlorodifluoromethane to the step of pyrolysis characterized in that monochlorodifluoromethane is first subjected to a step of removal of oxygen by preheating the reaction mixture in the presence of copper turnings and then to the said step of pyrolysis.

Complete specification 9 pages.

CLASS : 32F, 158251

Int. Cl. : C 07 c 21/18.

A PROCESS FOR THE PRODUCTION OF TETRAFLUOROETHYLENE.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19, UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : BALKAR SINGH, PRAVEEN KUMAR KAICKER, UMESH TANEJA AND JAI KRISHNA NIGAM.

Application for Patent No. 754/Del/1982 filed on 13th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the production of tetrafluoroethylene from monochlorodifluoromethane which comprises in subjecting a reaction mixture of monochlorodifluoromethane and a diluent consisting of steam to the step of pyrolysis, recovering TEE therefrom characterized in that the reaction mixture is first subject to a step of removal of oxygen therefrom by preheating the reaction mixture prior to the step of pyrolysis and then subjected to the step of pyrolysis.

Complete specification 11 pages.

CLASS : 32F, & 40E 158252

Int. Cl. : F25J 3/08.

A PROCESS FOR THE SEPARATION OF TETRAFLUOROETHYLENE FROM GAS MIXTURES.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : BALKAR SINGH, PRAVEEN KUMAR KAICKER, UMESH TANEJA AND JAI KRISHNA NIGAM.

Application for Patent No. 755/Del/1982 filed on 13th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the separation of tetrafluoroethylene from gas mixture obtained by pyrolysis of monochlorodifluoromethane by the known method with a first solvent such as aliphatic ketones characterized in the subsequent step of scrubbing with a water miscible organic solvent for dissolving said first solvent followed by scrubbing or stripping with water.

Complete specification 7 pages.

CLASS : 23 B. & 143 D1

158253

Int. Cl. : B 65 d 5/00, 5/22, 5/26, 5/28.

A PACKING BOX OR CASE.

Applicant : UNISYSTEMS PRIVATE LIMITED, 25, COMMUNITY CENTRE EAST OF KAILASH, NEW DELHI-110065, INDIA, AN INDIAN COMPANY.

Inventor : KAMAL MEATTE.

Application for Patent No. 758/Del/1982 filed on 16th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A packing box or case for transporting agricultural products such as mangoes, apples and other fruits comprising a main body of corrugated paper board forming the bottom portion flanked by two sides and half parts of cover on opposite sides, flaps extending from the two free sides of the bottom portions and the sides and two end portions each also of corrugated paper board having an end side, two laterally extending side flaps and a longitudinally extending cover flap, the main body being folded along crease lines formed between the bottom portion and the sides, the sides and half parts of the cover, and the said flaps and the bottom portion and the sides, the end portions being folded along crease lines between the end sides and their flaps, the folded main body and the folded end portions being secured together by wire stitches or staples passing through the flaps on the main body and the end sides and the side flaps on the end portions and the two sides, the half parts of the cover or the main body and the end portions being bent at right angles towards each other respectively.

Complete specification 9 pages.

Drg. 1 sheet.

CLASS : 40 B

158254

Int. Cl. : B 07 j 11/00.

PROCESS FOR THE PREPARATION OF A CATALYST COMPOSITE MATERIAL.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PAUL RATNASAMY, SUNEETA BALVANT KULKARNI, VASUDEO PANDURANG SHIRALKAR, GANGUNDI PRAKASH BABU AND KALPANA HEMAYYA CHANDAWAR.

Application for Patent No. 752/Del/1980 filed on 8th October, 1980.

Complete Specification left on 7th January, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the preparation of a catalyst composite material consisting of an admixture of amorphous and crystalline alumina, silica and aluminosilicates wherein the sodium oxide to aluminium oxide are in a molar ratio of 0.05 and 0.3, said crystalline aluminosilicate having a silica to alumina ratio by weight of 25 to 100 and said amorphous aluminosilicate having a silica to alumina ratio by weight of 5 to 200, comprising reacting an aqueous solution of oxides of sodium, aluminium and silicon with an ammonium compound of bromine of general formula

$A_x B_y N + Br^-$ —wherein A is ethyl, propyl or butyl and B is ethyl, propyl or butyl and wherein the alkyl group represented by may or may not be the same as that represented

by B and wherein values of x and y may vary between 1 to 3 and wherein the value of x may or may not be same as that of y and wherein the sum of values of x and y equals 4, in the presence of sulphuric acid to form a firm gel, separating the same by filtration, drying and calcining the resultant solid product to remove NH_3 , CO_2 and H_2O and treating the reaction product for ion exchange with a salt of ammonia to obtain a molar ratio of sodium oxide to aluminium oxide in the range of 0.05 to 0.3 in the resultant composite material formed.

Provisional specification 16 pages.

Drg. 1 sheet.

Complete specification 13 pages.

CLASS : 40 B and 32 B

158255

Int. Cl. : B 01 j 11/00 and C 07 c 15/02.

AN IMPROVED PROCESS FOR THE CATALYTIC ALKYLYTIC OF BENZENE TO ETHYLBENZENE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PAUL RATNASAMY, SUNEETA BALVANT KULKARNI, VASUDEO PANDURANG SHIRALKAR, GANGUNDI PRAKASH BABU AND KALPANA HEMAYYA CHANDAWAR.

Application for Patent No. 44/Del/1982 filed on 19th January, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

An improved process for the catalytic ethylation of benzene to ethylbenzene comprising reacting benzene with an ethylating agent selected from commercial rectified spirit or ethylene in the presence of a catalyst composite material consisting of an admixture of amorphous and crystalline alumina, silica and aluminosilicates wherein the sodium oxide are in a molar ratio of 0.05 to 0.3, said crystalline aluminosilicate having a silica to alumina ratio by weight of 25 to 100 and said amorphous aluminosilicate having a silica to alumina ratio by weight of 5 to 200.

Complete specification 11 pages.

CLASS : 70C

158256

Int. Cl. : C 22 d. 3/08.

AN IMPROVED PROCESS FOR THE PREPARATION OF ANHYDROUS MAGNESIUM CHLORIDE FOR USE AS CELL FEED FOR THE ELECTROLYTIC PRODUCTION OF MAGNESIUM METAL.

Applicant : COUNCIL OF SCIENTIFIC RESEARCH, TRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PANCHAPAGESA SUBRAMANIAN, ARUNACHALAM SELVAKESAVAN, LAGUDUVA KRISHNA IYER SRINIVASAN, POONAMALLE SRINIVASA DESIKAN, KADATHUR SOMASUNDARA SRINIVASAN, GAJAVALLI NAGARAJA RAO KANNAN, SOMASUNDARAM SUKUMARAN, NARASIMHAN RAJAGOPALAN, CHANASSERY OUSO AUGUSTIN, KOYALMANNAN SEETHARAMA DHANDAPANI, SRINIVASA SRIKANTAN, THANGARAJ SELVIN DEVASAHAJAN AND HANDDY VENKATAKRISHNA UDUPA.

Application for Patent No. 49/Del/1982 filed on 23rd January, 1982.

Complete specification left on 23rd April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved process for the preparation of anhydrous magnesium chloride for use as cell feed for the electrolytic production of magnesium metal comprising mixing partially dehydrated magnesium chloride containing 0.5 to 1.5 molecules of water and 4 to 8% of magnesium oxide with 2 to 10% of carbon, under a pressure of 140 to 260 Kg/Sq. cm. and heating the briquettes formed at a temperature between 200°C to 350°C in a current of chloride gas.

Provisional specification 5 pages.

Complete specification 15 pages.

CLASS : 32F₂(a) 158257

Int. Cl. : C 07 c 85/00, 85/10 & 87/52.

AN IMPROVED CONTINUOUS PROCESS FOR THE PREPARATION OF m-NITRO ANILINE FROM m DINITRO BENZENE BY CATALYTIC HYDROGENATION.

Applicant : COUNCIL OF SCIENTIFIC RESEARCH, TRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : AZIZ MIRZA & RAJA GOPALAN VAIDYASWARAN.

Application for Patent No. 223/Del/1982 filed on 18th March, 1982.

Complete specification left on 16th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An improved continuous process for the preparation of m-nitroaniline from m-dinitrobenzene by catalytic hydrogenation comprising subjecting m-dinitrobenzene solution in an organic solvent therefor to hydrogen pressure of 30-100 bars at a temperature range of 250°-340°C over a fixed bed catalyst consisting of oxides and sulphides of 6th and 8th group metals of periodic table supported on carriers and recovering the m-nitroaniline formed from the reaction by methods known per se.

Provisional specn. 6 pages. Drg. 1 sheet.

Complete specn. 11 pages.

CLASS : 206-E 158258

Int. Cl. : B 01 j 17/34 & 17/40.

A NEW IMPROVED CLOSED TUBE DIFFUSION PROCESS WITH IMPURITY GETTERING IN SILICON.

Applicant : NGEF LTD., REGD. OFFICE AT BY-APPANAHALLI, POST BOX NO. 3876, OFF OLD MADRAS ROAD, BANGALORE-560 038, KARNATAKA.

Inventors : (1) KRISHNASWAMY KALIYAMURTHY, (2) RAGHAVENDRACHAR KRISHNAMURTHY, (3) DR. BANGALORE EKAMBARAN RAMACHANDRAN.

Application No. 230/Mas/83 filed November 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A closed tube diffusion process for the manufacture of semiconductor devices with simultaneous impurity gettering during dopant diffusion in silicon which comprises filling of 10 volume per cent of anhydrous hydrogen chloride in ultra pure argon gas into standard quartz ampoule containing silicon wafers, dopant gallium source, quartz accessories and subjecting the above mentioned ampoule to the diffusion temperature in the range of 1200-1300°C for a period of 50-60 hours.

Compl. specn. 6 pages.

Drg. 1 sheet.

CLASS : 55 F

158259

Int. Cl. : A 61 K 9/04.

A PROCESS FOR MICROENCAPSULATION BY SEDIMENTATION THROUGH MULTIPHASE SYSTEM.

Applicant : ANIL KUMAR MADAN, RAJESH PARTI AND BHAGWAN DASS MIGLANI, COLLEGE OF PHARMACY, NEW DELHI-110017, ALL INDIANS.

Inventors : ANIL KUMAR MADAN, RAJESH PARTI AND BHAGWAN DASS MIGLANI.

Application for Patent No. 362/Del/1982 filed on 15th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process for microencapsulating materials such as herein described in the form of powder, granules, crystals or liquid droplets by sedimenting core material through a multiphase system comprising of a coating phase consisting of a solution of coating material such as herein described in a solvent or mixture of solvents such as herein described and maintained at a temperature above 25°C, a congealing phase which is immiscible with coating phase and consists of a liquid such as herein described and is maintained at a temperature below 20°C and a desolvating phase which is miscible with the solvent employed in the coating phase but is a non-solvent for the coating material and is immiscible with the congealing phase and consists of a liquid such as herein described and is maintained at a temperature below 20°C, all the three phases being housed in a single vertical column in such a way that the coating phase forms the uppermost layer, the congealing phase constitutes the middle layer and desolvating phase forms the lowest layer, allowing the core material to sediment through all the three phases after being sprinkled on to the upper surface of coating phase, the sedimenting core material gets enveloped with a film of coating solution while passing through coating phase and the film enveloped around core material gets rigidised while sedimenting through desolvating phase resulting in formation of microcapsules, provided further that a provision for agitation can be made in desolvating phase to prevent sticking of microcapsules to each other till complete rigidisation of coating has taken place.

Complete specn. 11 pages.

CLASS : 32E & 39P

158260

Int. Cl. : B 01 j 1/04 & C 01 f 5/00.

METHOD OF REGENERATING A CATION EX-CHANGE RESIN LOADED WITH ADSORBED MAGNESIUM IONS AND PRECIPITATING THE STRIPPED MAGNESIUM IONS.

Applicant : AMERICAN PETRO MART, INC., A COMPANY ORGANISED UNDER THE LAWS OF FLORIDA, U.S.A., OF 125 NORTH WILSON, BARTOW, FLORIDA-33830, UNITED STATES OF AMERICA.

Inventor : HAROLD NELSON HEDRICK AND SOLON GENE WHITNEY.

Application for Patent No. 422/Del/1982 filed on 2nd June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

The method of regenerating a cation exchange resin loaded with adsorbed magnesium ions and precipitating the stripped magnesium ions, characterized by the step of:

- (a) sequentially introducing increments of said loaded resin into the bottom of a regeneration column while sequentially removing regenerated increments of said resin from the top of said column;
- (b) introducing an aqueous sulfuric acid (H_2SO_4) regenerating solution into the upper portion of said column at a concentration of 40% or higher H_2SO_4 by weight and passing said regenerating solution downwardly through an upper increment of said resin before removal of said increment from said column;
- (c) removing a magnesium ion-containing sulfuric acid solution from the lower portion of said column at a concentration of 20% or higher H_2SO_4 by weight, said concentration being reduced from the introduction to the removal of said acid; and
- (d) precipitating magnesium sulfate from said removed solution by adding concentrated sulfuric acid thereto having a sufficiently higher H_2SO_4 concentration to cause the magnesium sulfate to crystallize as co-crystallization compounds of $MgSO_4$ and H_2SO_4 .

Compl. specn. 17 pages.

Drg. 1 sheet.

CLASS : 24D₄

158261

Int. Cl. : F 16 d 57/00.

AN AIR PRESSURE OPERABLE MECHANISM FOR OPERATING AN HYDRAULIC MASTER CYLINDER FOR ROAD VEHICLES.

Applicant : BENDIX LIMITED, OF DOUGLAS ROAD, KINGSWOOD, BRISTOL BS15 2NL, ENGLAND, A BRITISH COMPANY.

Inventor : BRIAN PATRICK NEAL AND ARNOLD COURTRY WHEELER.

Application for Patent No. 463/Del/1982 filed on 21st June, 1982.

Convention date on 2nd July, 1981/8120532/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An air pressure operable mechanism for operating an hydraulic master cylinder for road vehicle and including an air-pressure operable actuator having a pressure responsive member arranged to operate the master cylinder via at least one actuator rod such as herein described the length of which is chosen to provide a clearance between the rod and its point of engagement with a piston of the master cylinder wherein an end wall of the actuator is provided with an adjustable internal stop against which the pressure responsive member rests to define the fully released position, said stop being adjustable during assembly to set the clearance to a desired value.

Compl. specn. 8 pages.

Drg. 2 sheets.

CLASS : 145 B, C

158262

Int. Cl. : D 21 d—3/00 & D21h—5/00, 1/08, 5/10.

METHOD OF FORMING PAPER HAVING PARTIALLY EMBEDDED WITHIN ITS THICKNESS A STRIP AND PAPER SO FORMED.

Applicant : PORTALS LIMITED, A BRITISH COMPANY, OF OVERTON MILLS, OVERTON, BASINGSTOKE, HAMPSHIRE RG25 3 JG, ENGLAND.

Inventors : JAMES STEWART FULLER.

Application for Patent No. 525/Del/1982 filed on 12th July, 1982.

Convention date 13-7-81/8121564/(U.K.), 9th December, 1981/8137014 (U.K.), 22nd March, 1981/8208348.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A method of forming a paper containing a strip of the kind described herein partially embedded within its thickness which method comprises depositing paper fibres from a furnish on to a surface of a porous support by drainage through said support, laying a strip over the deposited paper fibres, said strip having first relatively impermeable portions which will obstruct further drainage sufficiently to prevent any substantial deposition of paper fibres thereover and second permeable portions which will obstruct further drainage insufficiently to prevent further deposition of paper fibres thereover, and depositing further paper fibres by drainage through said support so as to form a paper having said strip in part embedded in the thickness thereof and in part exposed on one surface thereof.

Compl. specn. 24 pages.

Drg. 4 sheets.

CLASS : 63 B&II

158263

Int. Cl. : H 01f 7/00 and H 02K 1/22.

ELECTROMAGNETIC INDICATOR DEVICE HAVING A ROTOR DISPOSABLE IN DISCRETE POSITIONS.

Applicant : THE STAVIR COMPANY, INC., A CORPORATION OF THE STATE OF NEW YORK, HAVING A PLACE OF BUSINESS AT 41-51 NORTH SAXON AVENUE, BAY SHORE, NEW YORK, U.S.A.

Inventor ALFRED SKROBISCH.

Application for Patent No. 594/Del/1982 filed on 3rd August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

An indicator device having two stable positions comprising:

a stator having an elongated stationary reversible polarity permanent magnet core; means for reversing polarity of said permanent magnet core;

a rotor carried by said stator and having a magnet disposed adjacent to said core, said rotor being turnable angularly on an axis perpendicular to said elongated core from one of said stable positions to the second of said stable positions upon reversing polarity of said permanent magnet core;

said magnet having two magnetic poles each of which is located on the same side of a diameter of said rotor which diameter passes through said elongated core at each of said stable positions so that reversing polarity of said core will produce reverse turning movements of said magnet; and

stop means carried by said stator and rotor and arranged for selective engagement thereinbetween so that rotation of said rotor is stopped at one of said stable positions in its angular movement where both of said poles are spaced from said core with one of said poles closest to said core attracted magnetically to said core while said stop means prevent rotation and vibratory movements of said rotor.

Compl. specn. 12 pages.

Drg. 2 sheets.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy:—

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143618 143736 143968 143992 144088 144131 144215 144232
144268 144299 144315 144335 144432 144477 144584 144642
144692 144704 144708 144719 144724 144725 144738 144778
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144908 144920 144946 144948 144950 144956 144963 145047
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145179 145195 145207 145221 145223 145235 145237 145238
145244 145254 145269 145284 145301 145306 145308 145311
145316 145317 145322 145345 145347 145375 145387 145389
145399 145402 145483 145689 145768.

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145623 145635 146153 146154 146174 146175 146177 146193
146252 146330 146362 146370 146518 146505 146541 146596
146847 146884 146951 146987 146998 147046 147049 147067
147075 147078 147097 147139 147145 147173 147188 147191
147220.

PATENTS SEALED

151843 155433 155557 155680 155789 155820 155821 155836
155837 155838 155839 155841 155847 155848 155849 155851
155853 155854 155856 155859 155860 155861 155862 155967
155987 155999 156000 156024 158089 156170 156174 156570
156572 156573 156575 157175.

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The amendments proposed by Metal Box Limited in respect of Patent application No. 154633 as advertised in Part III, Section 2 of the Gazette of India, dated the 7th December, 1985 has been allowed.

(2)

Notice is hereby given that Union Carbide Corporation Manufacturers, a corporation organised and existing under the laws of the State of New York, United States of America located at 270 Park Avenue, State of New York-10017, United States of America have made an application under section 57 of the Patents Act, 1970 for amendment of application and specification of their application for Patent No. 155745 for "Double-Walled Container For Storing Perishable Materials At Cryogenic Temperatures and Method for the Manufacture thereof". The amendments are by way of changing address from "located at 270 Park Avenue, New York, State of New York 10017, United States of America" to "with office at Old Ridgebury Road, Darien, State of Connecticut 06817, United States of

America." The Application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the same for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

RENEWAL FEES PAID

138285 138627 139287 139460 139547 139571 139967 140409
140410 140456 140620 140887 141958 142368 142439 142759
142815 142853 142863 143236 143775 143913 143928 144034
144082 144134 144372 144646 144860 144951 145013 145049
145181 145183 145201 145208 145311 145975 146034 14635
146036 146108 146257 146281 146436 146628 246966 147768
147805 148367 148752 149138 149805 149929 150102 150667
151021 151441 151523 151588 151730 151962 151987 152000
152034 152035 152096 152531 152658 152709 152784 152800
152904 152933 152956 153174 153195 153210 153259 153585
153722 153723 153747 153892 154026 154125 154416 154457
154458 154745 154879 154903 154972 154974 155079 155084
155199 155417 155481 155799 155800 155801 155802 155850
155871 155875 156449.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 156505. Deepak Ratilal Panchal Indian Nationals of 17-B Vaishali Nagar, S.V. Road, Flat No. 204, Behind Ram Shyam Cinema, Jogeshwari (West) Bombay-400 102, State of Maharashtra, India. "Multi-Masonry Expansion Fastner". 6th January, 1986.

Class 1. No. 156638. Batnakar G. Patwardhan, Indian National of R.P. Products, 55 Hindu Colony, Dadar, Bombay-400 014, State of Maharashtra, India. "Table Mat". 17th February, 1986.

Class 1. No. 156776. The Arvind Mills Limited, an Indian Company of Naroda Road, Ahmedabad-380 025, Gujarat, India. "Apparatus to Measure Density of Coal". 13th March, 1986.

Class 1. No. 156868. Iualsa Private Limited, A Company incorporated under the Indian Companies Act, Surya Kiran, 19-Kasturba Gandhi Marg, New Delhi-110 001, India. An Indian Company. "Bowl Stand". 24th March, 1986.

Class 1. No. 156962. Smt. Jyoti Parman and Wadhwani, 107A, Hemkunt Tower, 98, Nehru Place, New Delhi-110 019, India, an Indian National. "Slanting (Window frames)". 16th April, 1986.

Class 1. No. 157089. Krishan Kant Puri, 23(S) Basti Harphool Singh, Sadar Thana Road, Delhi-110 006, India, an Indian Proprietary concern. "Locks". 27th May, 1986.

Class 1. No. 157090. Speed and Power Instruments, 5644-Qutab Road, New Delhi-110055, India, an Indian Partnership concern. "Baby Chair". 27th May, 1986.

Class 3. No. 156704. Bansal Traders & Engineering Company, C-7, Wazirpur Industrial Area, Delhi, India a Partnership firm. "Toy Wheeled Horse", 26th February, 1986.

Class 3. No. 156714. Messrs Wockhardt Limited, a company incorporated under the Indian Companies Act, 1956 having its registered office at Poonam Chambers, Worli, Bombay-400 018, Maharashtra, India. "Plastic Container", 26th February, 1986.

Class 3. No. 156779. The Arvind Mills Limited, an Indian Company of Naroda Road, Ahmedabad-380 025, Gujarat, India. "Apparatus to Measure Density of Coal". 13th March, 1986.

Class 3. No. 156883. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18(WB), Maharashtra State, India, an Indian Company. "A Pocket Radio". 31st March, 1986.

Class 3. No. 156884. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr.

Annie Besant Road, Worli, Bombay 18(WB), Maharashtra State, India, an Indian Company. a "Radio". 31st March, 1986.

Class 3. No. 156990. Fusion Polymers Private Limited, Incorporated in India, an Indian Company of 33 Hasanali Mansion, 29 Jijibhoy Dadabhoy Lane, City of Bombay-400 001, State of Maharashtra, India. "Tank For Liquids". 2th April, 1986.

Class 3. No. 157108. Vineet Arora and Geoffrey Pinto (both are Indian Nationals) of 105 Beach Haven-2, Juhu Tara Road, Juhu, Bombay-400 049, State of Maharashtra, India. "Drinking Straw". 3rd June, 1986.

Class 4. No. 156780. The Arvind Mills Limited, an Indian Company of Naroda Road, Ahmedabad-380 025, Gujarat, India. "Apparatus to Measure Density of Coal". 13th March, 1986.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks

